

## CHAPTER 22 INNOVATIVE TECHNOLOGIES

22-1. Introduction. This chapter discusses the use of innovative technologies in OE response actions. Topics discussed include the innovative technology program and the technology advocate.

22-2. Innovative Technologies in OE Response Actions.

a. Innovative technologies, like any other engineering tool, must be applied appropriately to an OE response project. The best available technology for each OE response project may vary due to different and unpredictable, site conditions.

b. The OE MCX reviews, evaluates, and approves the implementation of the best available OE detection and removal technologies for OE response projects. The OE MCX ensures that the implementation of innovative technologies is efficient and effective. The OE MCX defines current technology and functional requirements, provides consulting services to projects, identifies technology gaps, provides seed money to field improved technologies, and supports other technology programs. To assist with these functions, the OE MCX maintains an OE Innovative Technology Program.

22-3. Innovative Technology Program.

a. The purpose of the OE MCX Innovative Technology Program is to assess and apply innovative applications of existing technology to OE response projects. The PM should contact the OE MCX to discuss the applicability of innovative technologies to an OE response project.

b. The Innovative Technology Program is focused on three phases: assessment, removal, and treatment. Efforts are tailored to address the tasks required in each phase to produce logical, efficient, and safe site-specific cleanup activities. The current OE technology or “baseline” is used to evaluate and develop improvements to the state-of-the-art.

c. The Innovative Technology Program utilizes a team approach, involving multiple disciplines and techniques, to adapt safe and efficient techniques and technologies to project-specific assessments, OE removals, and disposal or treatment activities.

22-4. Technology Advocate.

a. In order to ensure that the most appropriate technologies are implemented during project design and execution, each organization performing OE work must have an OE Technology Advocate. The USACE Technology Advocate at the OE MCX serves as the user-

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needs interface between the Design and Execution Districts and USACE, the US Army Environmental Center and DOD Executive Agent for UXO Technology Programs.

b. The OE Innovative Technology Advocate also coordinates and implements technology transfer activities with other federal agencies and public and private sector stakeholders. The Technology Advocate is responsible for:

(1) Coordinating with the OE MCX on regulatory, policy, and procedural issues relating to OE technology on behalf of his or her organization.

(2) Maintaining a current working knowledge of conventional and emerging technologies having application to OE design or response execution.

(3) Serving as an organizational resource for technologies that may contribute to project effectiveness (enhanced risk reduction per cost).

(4) Communicating technology information, opportunities, requirements, lessons learned, or other feedback among design or execution personnel and the OE MCX.